Bridge Culvert Inspection													
Bridge File Number 09854 -1			54 -1 Bridge Culvert				Form Type		CUL1				
Year Built 1979			179				Lot No.			1			
Bridge or Town Name BOYLE			.E				Inspector Name		Todd Warshawski				
Located Over	T							or Class		BR CLS B			
Located On 663:04 C1 3			1 27 037				Assistant Name						
Water Body CL/Vear							Assistant Class						
Navigabil CL/Year							Inspection Date		08-Mar-2010				
Legal Land Location SE SEC			C 4 TWP 65 RGE 20 W4M					ntry By		Theresa Lacusta			
Longitude Latitude -112:57		112.57.4	4 54:35:14		Data E	ntry Date		25-Mar-2010					
Road Authority Alberta		Alberta T	ransportation			Reviewer Name		Arnold Assenheimer					
Contract Main, Area CMA07		CMA07		(••••)			Review Date			11-Mar-2010			
Clear Roadway/Skew 9 / -8 d		9 / -8 dec	-8 deg. (LHF)					Dept. Reviewer Name		Brent Herrick			
AADT/Year	8	360 / 200	/ 2008 (A)				Dept. Review Date			25-Mar-2010			
Road Classificat	tion F	RCU-209	09-110				Follow-Up By						
Detour Length (H	km) 6	3											
Bridge Culvert Information													
Number of Culverts 1													
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	-		2905		SP		40.2		152X51	3.0	ROUND	
Special Features	s												
Special Features Comment BF TAG ON TOP OF BEVEL.													
Utility Attachmer	nts				01	inties (E		atj					
Telephone							Gas						
Power							Municir	bal					
Others						Probler	n (Y/N)						
Remarks													
Approach Road / Embankment													
						Now	Explan	ation of	Condit	ion			
Horizontal Alignment					8	8	_ Slight rise to East.						
Vertical Alignment					8	7							
Roadway Width (m)			9.000										
Embankment					Ν	7							
Sideslope (:	:1)		3.0				-						
(Height of Cov	/er (m) :	)	1										
Guardrail (Y/N) No					_								
Approach Road	d / Emba	ankment	General Rati	ng	8	7							
						Upstre	am End						
Culvert Component				Last	Now	Explan	ation of	Condit	ion				
Direction			S		-								
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall				X	Х								
Collar			Ν	5									
Wingwalls			Х	Х									
(Shape : )				_									
Cutoff Wall					Ν	N							

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			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	5	
Heaving (mm)	50			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	4	Concrete slabs poured adjacent to shoulder, slab settled 225mm.
(Type : RIP RAP, CONCRETE	)			Some settlement of fill under shoulders & slab but no damage to
(Avg. Rock Size (mm) : 200)				
Scour/Erosion		N	4	
Beavers (Y/N)	Yes			Dam across inlet50% blocked
Upstream End General Rating		4	4	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	pan (mm	): -, R	lise (mm): 2905, Type: SP)
Barrel Last Accessible Date	08-Mar-2010		<u>, ,</u>	
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		5	5	(Rise @ R5, 3063; 5.4% deflection. 22/June/2000)
Measured Rise (mm)	3063			Not measured due to ice
Measured At Ring No. 5				Noticable flattening R5-8.
Sag (mm)	158			Est sag 5%.
Percent Sag	5			
Sidewall	-	3	5	Small tears in R1 adjacent to shoulder @ approx 3:00, 9:00, photo
Measured Span (mm)	3073			
Measured At Ring No	6			-
Deflection (mm)	168			-
Percent Deflection	6			-
Floor	0	N	N	
Bulgo (mm)	0		IN	
Measured At Ping No.	0			-
Abrasian ()//N)	No			-
	INU	-	0	
	0	5	6	-
Separation (mm)	U			
Longitudinal Seams		3	N	(Rings 7,8,9 are cracked at 3 o'clock. Steel remaining between bolt boles in ring 9, 83mm, 2000/06/22)
Total No. of Cracked Rings	0			Cracks not identified.
Min. Remaining Steel				-
Between Cracks (mm)				-
Proper Lap (Y/N)	No			-
Longitudinal Stagger (Y/N)	No		-	
Coating	I	5	5	Lower 1/4 has superficial corrosion.
Corrosion By Soil (Y/N)	Yes			-
Corrosion By Water (Y/N)	Yes			Corrosion from water, infiltration on upper seam boltsphoto
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2905, Type: SP)										
Fish Passage Adequacy		7	7							
Baffle		X	Х							
(Туре : )										
Waterway Adequacy		6	6							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		3	3	GR carried fwd.						
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction		N		_						
End Treatment (Concrete, Steel, Others, None)	Ind Treatment (Concrete, Steel, STEEL Others, None)									
Headwall			Х							
Collar		Х	X							
Wingwalls		X	Х							
(Shape : )										
Cutoff Wall		Х	X							
Bevel End		N	6							
Heaving (mm)	50									
Invert Above/Below Stream Bed										
Above/Below (mm)	0									
Scour Protection		N	6							
(Type : NATURAL)										
(Avg. Rock Size (mm) : )		,								
Scour/Erosion			6							
Beavers (Y/N)	Yes									
Downstream End General Ration	ng	7	6							
		S	structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		6	6							
Bank Stability			6							
HWM (m below Top of Culvert)				Not visible						
Drift (Y/N)	Yes									
Channel Bottom Degrading/Aggrading										
Beavers (Y/N) Yes										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		5	6							

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Maintenance Recommendations												
Inspector Recommendations			Year	Inspecto	r Comments		Department Com		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT AC	CCUMULATION											
INSTALL CONCRET	TE/STEEL LINING											
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION			2010	Re-inspect at low water to verify cracked seams.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			33.3/33.3	3	Sufficiency Rating (Las (%)	st/Now)	49.0/48.5	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By							Date		E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Jasor		Jason S	Jason Saly P				us Assistant's Name					
Next Inspection Date 08-Ju		08-Jun-	08-Jun-2013 Pre			Previous	s Inspection Date 04-Dec-2006					
Inspection Cycle (Default) (months) 39								· · · · · · · · · · · · · · · · · · ·				
Comment												